Name:

Deposit your quiz solution in this directory:

/data/courses/ece\_1111/current/quizzes/qu\_04/lastname\_firstname

in a directory named *p01*.

1. Write a C program that converts the command line argument to a binary coded decimal, and then reverses the process so that you produce the original value. You can assume the numbers are unsigned integers and range between $[0,255]$.

The following examples should work:

**ece-000\_[1]: p01.exe 9**

**9 = 00001001 = 9**

**ece-000\_[1]: p01.exe 3**

**3 = 00000011 = 3**

Your output must be exactly as shown above.

You do not need to implement this using functions (though using functions will make this easier). You can include all your code in a main program named *p01.cc*. You should have three files: Makefile, p01.cc and p01.h. Your code should compile and link using make.

You must compute the binary equivalent, and then take that converted value and reconstruct the original value.